

Effect of β -adrenoceptor blockade on cardiac activity in rats during postnatal ontogeny

Anikina T., Bilalova G., Sitdikov F.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Electrical stimulation of the right stellate ganglion produces a positive chronotropic effect in 21-, 56-, and 100-day-old rats. The response of the heart rate to suprathreshold stimulation increased from the 21st to 100th day. By contrast, during β -adrenoceptor blockade the heart rate response decreased. The data suggest that the role of β -adrenoceptor in the regulation of cardiac chronotropic function increased with age. © 2003 Plenum Publishing Corporation.

<http://dx.doi.org/10.1023/B:BEBM.0000008970.91695.03>

Keywords

β -adrenoceptors, Heart, Rat, Sympathetic control